

Notice of Allowability

Application No.	Applicant(s)	
09/416,618	PAASCH, ROBERT	
Examiner	Art Unit	
LAM S. NGUYEN	2853	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to amendment dated 01/20/2006.
2. The allowed claim(s) is/are 2,4,7-10,12-14,23 and 29-34.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of
Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended to cancel the following claims that have been withdrawn by the applicant from prosecution:

In the claims:

Claim 17: Canceled.

Claim 19: Canceled.

Claim 20: Canceled.

Claim 21: Canceled.

Claim 22: Canceled.

Claim 26: Canceled.

Claim 27: Canceled.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Regarding to claims 7, 9, 23: In light of the applicant's argument, the examiner admits that Mochuzuki et al.'s elements 12-1 and 12-2 are not sensors. As a result, the primary reasons for the indication of the allowability of the claims is the inclusions therein, in combination as currently claimed, of the limitation that a second pressure sensor configured to detect pressure waves in a second direction induced by the firing of said ink expulsion mechanism, wherein the

second direction is substantially orthogonal to the first direction (or said predetermined direction), or wherein said first sensor and said second sensor are provided in a substantially orthogonal arrangement on said substrate is neither disclosed nor taught by the cited prior art of record, alone or in combination.

Regarding to claim 10: The primary reasons for the indication of the allowability of the claim is the inclusions therein, in combination as currently claimed, of the limitation that the sensor mechanism detects a pressure wave of a second non-zero magnitude different from said first non-zero magnitude indicative of when said nozzle is unclogged, wherein the first non-zero magnitude is in the range of 15% to 25% less than said second non-zero magnitude is neither disclosed nor taught by the cited prior art of record, alone or in combination.

Regarding to claim 29: The primary reasons for the indication of the allowability of the claim is the inclusions therein, in combination as currently claimed, of the limitation that wherein a pressure wave generated by a clogged nozzle has a time delay in the range of 15% to 20% less than a time delay generated by an unclogged nozzle is neither disclosed nor taught by the cited prior art of record, alone or in combination.

Claims 2, 4, 8, 12-14, and 30-34 are allowed because they depend directly/indirectly on claim 7, 10, or 29.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

Art Unit: 2853

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LAM S. NGUYEN whose telephone number is (571)272-2151. The examiner can normally be reached on 7:00AM - 3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, STEPHEN D. MEIER can be reached on (571)272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LN
03/29/2006

Hai Pham

HAI PHAM
PRIMARY EXAMINER